

# USIIS - UWIN Electronic Bridge User's Overview

## Definitions:

**USIIS** - Utah Statewide Immunization Information System. An electronic registry at the Utah Department of Health which collects and maintains immunization information from immunization providers throughout the State.

**UWIN** - Utah WIC Information Network. A Network of computers containing and sharing information pertaining to the WIC program. There is a main computer system located at the State Capitol containing a complete set of WIC data.

## Purpose of the bridge:

To share the immunization information contained in USIIS and UWIN via an electronic bridge. This sharing of data provides several benefits:

- The bridge is designed to link immunization provider records on USIIS to UWIN, giving WIC clinic staff access to the most current immunization records from USIIS. This will reduce the time now devoted to immunization data collection, while improving the immunization levels of WIC participants.
- The need for data entry will be reduced because the immunization records of many WIC participants will be provided to the clinics from USIIS.
- Data re-entry will be significantly reduced in a similar way by enabling the immunization data of transferring WIC participants to be moved from one WIC location to another.
- Along with the immunization history of WIC children, WIC locations will also receive reports with information on future shots due for children from birth to 5 years of age.

## How the bridge works:

- **Method 1 – Immunization data entered in the WIC clinic software**

### *Day 1*

1. Data from the local WIC location is sent to UWIN after each clinic closes.
2. At 8:30pm, UWIN organizes all of the information from the WIC clinics into a single file and sends this file to USIIS.

### *Day 2*

3. By 5pm the next day, USIIS creates a file with the complete immunization history of each WIC child who exists in USIIS. This will include immunizations given from other immunization providers as well.

4. At 8:30pm, UWIN retrieves and processes the new file from USIIS and distributes the updated

information to the appropriate WIC locations.

### *Day 3*

5. Each WIC clinic will process the files from UWIN on the morning of the third day.

- **Method 2 – Immunization data entered in non-WIC clinic systems**

If immunizations are entered in another system and that system is connected to USIIS, WIC clinics will get that information for their participants. However, there is no rule for how often other systems have to send their data to USIIS. In general it is once a week, though not always. Because of this it may take considerably longer for the data from other systems to reach USIIS and in turn populate the WIC clinics database. A total of two weeks is a good general expectation for this process to be completed.

- The importance of this information is the understanding of how this transaction affects the immunization 'WICPR811' report for a child. This report contains a 'FUTURE IMMUNIZATIONS' section on the bottom, which forecasts when the child is due for vaccinations if any. In this report, the calculations for when a child's vaccinations are needed are done only on the USIIS side of the bridge. Consequently, if any shots have been added to a child's history in a WIC clinic, the necessary changes to the 'FUTURE IMMUNIZATIONS' portion of the report will not be made until the newly entered data has gone through the three day cycle above. In other words, any changes made to a child's immunization history will cause the child's immunization report to become outdated and inaccurate, until the morning file processing is done three days after the entry of this child's vaccinations. At which time the report will be updated and forecasts corrected.

- NOTE: USIIS generates the transfer file based upon the data it contains; therefore, the information given to WIC clinics is only as reliable as the data being sent to USIIS. Even though USIIS data should improve steadily as time goes on, the data it sends may or may not have a child's complete immunization history. The 'IMMUNIZATION HISTORY' section of the immunization report contains a disclaimer to this effect. Additionally, if the history is incorrect, the 'FUTURE IMMUNIZATIONS' portion of the report is probably incorrect also. Because of this, **immunization data should be double checked** by the parents and provider of the child for missing or incorrect information.

### *More on the 'Immunization Report'*

- **What is on the report?** The report is broken up into four sections: The HEADER, 'PARTICIPANT INFORMATION', 'IMMUNIZATION HISTORY', and 'FUTURE IMMUNIZATIONS'. It is pretty self explanatory; however, a couple of points may help clarify technical aspects of the report. First, the history section shows immunization types to the left of the shot dates. It may be incorrectly inferred that the first date column represents the first dose of this shot type and the second column the second dose and so on. In actuality the report simply takes the first sequential date for a shot type and puts it in the leftmost date column, regardless of what dose it actually is. Any shot thereafter belonging to that type will be placed in the next empty date column, and so on. Since child shot histories which do not

contain all the shots a child has received may exist in USIIS, the date column may or may not coincide with that shots dose number. Secondly, the history section of the report shows the most common types of immunizations a child may receive, required or not; whereas, the forecast section only lists immunization types which are required.

- **What is the purpose of the report?** The purpose of the 'WICPR811' Immunization Report is to help children get immunized by bringing attention to when a child's next immunizations are needed. It is a reminder to parents and immunization providers. The report should be given to the parent during a WIC clinic visit with an emphasis on the reports importance and purpose. It does not replace the child's immunization record card, but it should be kept with it and both records should be brought with the child during future visits to WIC clinics and other health care providers.
- **When should the report not be given to a parent?** If upon review of a child's immunization history it is found that additions or changes are needed, an immunization report should NOT be given to a parent. This is because of the above stated inaccuracy this could cause on the 'FUTURE IMMUNIZATIONS' section of the report. As a result, parents could be misled into thinking their child needs immunizations when they do not. If a parent still wants a copy of this report for any reason it can be generated for them with the understanding of this fact.

#### Immunizations Needed Flag

- **Immunizations Needed Flag:** It is especially important to alert a parent if their child is past due for an immunization. For this reason, a flag was created in hopes of minimizing the extra time needed to determine if a child is overdue for immunizations. This flag is displayed for each child while issuing vouchers; specifically it is located on the 'WICPS301' Produce Food Instruments Screen. This puts the ability to determine immunization status for a child in a very convenient location for WIC personnel. It is thought that if a child is overdue, special efforts need to be made to inform the parent of the child's needs.
- **Note:** If a report is given to a parent, old reports that they may have should be taken from them to reduce the confusion that several reports may create.

#### WIC Immunization Entry Screen Changes:

In order for the bridge to function there have been some small changes to the WIC Software Immunization Entry Screens. The changes are as follows:

- The immunization codes for vaccination types have been changed and more vaccination types have been added. Code '99 – ALL' has been removed as an option.
- 'Dose Number' has replaced 'Number in Series'.
- 'Exemption Code' has been removed.

- ‘Manufacturer Code’ has been added. This item is used to identify the maker of a specific vaccination and is used in conjunction with ‘Lot Number’ to identify who received a particular vaccine lot if need be. It is expected that if a WIC office administers a shot, they will know this information, while a WIC office simply recording a history of a shot may not. In the latter situation, if this information is not known, simply enter ‘UNK - UNKNOWN MANUFACTURER’ and leave the ‘Lot Number’ blank.
- When entering a vaccination, all items except ‘Lot Number’ require information to be entered.

### About Data Entry:

#### Demographic Information:

To avoid duplicate records being created in USIIS, the demographic information should be entered as accurately as possible. The child’s first and last name and birth date, and the mother’s maiden name are especially critical.

Frequently, duplicate records result from errors in entering the *mother’s maiden name*. To avoid these errors, please verify and enter the correct mother’s maiden name. The field *mother’s maiden name* only refers to the mother’s maiden last name. Do not enter the mother’s first name in this field. If it is not possible to determine the mother’s maiden name, enter “unknown.” Only when the mother’s current last name and maiden name are the same, enter the mother’s current last name in the “mother’s maiden name” field.

#### Immunization Data Entry:

Immunization information will be entered from one of two sources; administrative or historical. Administrative means that the shot was given at the WIC clinic and, therefore, information will be collected from WIC clinic personnel. Historical data refers to information gathered for a shot not given at the WIC clinic and, therefore, information will be collected from various historical sources such as record cards or even the memory of a parent.

The yellow ‘STATE OF UTAH LIFETIME IMMUNIZATION RECORD’ card will be the most common source of historical data. A copy of this card and additional related information is shown on the following pages. Most vaccines currently shown on this card are available as selections in the WIC Clinic Software Program. If the WIC Software does not have a vaccination as a choice, it may be deemed necessary to add this vaccine type to future releases of the WIC Software.

- **Combination Vaccines:**

1. *Definition of 'combination vaccines':*

If you look at the yellow 'STATE OF UTAH LIFETIME IMMUNIZATION RECORD' card you will notice that vaccination types are grouped together within sections of bolder horizontal lines. The vaccination types listed within the same sections are all in the same *vaccination group type* or *vaccination series*. For example, the 'Polio' vaccination series has OPV and IPV as vaccination types within the polio series.

Combination Vaccines are vaccines which contain the components for more than just one vaccination series. The purpose for combination vaccines is to reduce the number of times a child has to endure the pain of a shot. For instance, a DTP/HIB vaccination given to a child means that the child was given one shot that was the equivalent of two shots, a DTP and a HIB.

2. *Data entry of a combination type:*

If a vaccination given was a combination type, it is important it be entered as such instead of entering it multiple times, once for each series the combo contains. For example, do not enter a DTaP and a HIB for a DTaP/HIB combo. Additionally, combo vaccinations have a dose number for both parts of the combination. So it is possible for the DTP component to be dose 2 while the HIB is a dose 1. WIC Entry Screens do not have a method of handling this. The entry screen only asks for one dose and both components are assigned the same dose number, transparent to the user. It is more important to enter the correct vaccine type then the correct dose number. Therefore, the general rule is to enter the dose number of the first part of the combination and ignore the dose number for the second component of the combination vaccine. So, in the situation just stated, a DTP/HIB dose 2 should be entered and the dose 1 for the HIB portion should be ignored. USIIS has the ability to correct incorrect dose numbers if it has a complete history for a child. This applies to all types of combination vaccines. Currently this includes DTP/HIB, DTaP/HIB, and HIB/HEP B.

- **Translating The Yellow Record Card into The WIC Software:**

Understanding what health providers have recorded on The Yellow Record Card is not always a simple task. Providers don't necessarily enter the data in a consistent way and assistance in interpreting this information is one of the primary reasons the WIC Bridge Help Desk was formed. Hopefully, most of the common questions will be answered in this section.

*General Information:*

1. The 'Vaccine Type' (corresponds to the **immunization code** in the WIC system) column should contain the specific vaccination type administered to the child. However, this is not always the case; sometimes it is left blank, sometimes the vaccination brand name is entered here, and still other times the vaccine manufacturer or lot number is placed in this column. Explanations for blanks and brand names in the vaccine type are handled in the table on pages 6 and 7. For manufacturer names (may be abbreviated) and lot numbers placed in the vaccine type column, a table of

manufacturer codes and names is provided on the last page as well as in the WIC Immunization Entry Screen. If the reader has no idea of how a lot number looks, they are generally five to seven characters in length and can contain dashes and letters, though they are made up primarily of numbers. Ex. 454-343, 642896, 0078F.

2. Vaccine dose numbers (corresponds to the **dose number** in the WIC system) are plainly visible on the yellow card. However, if another form of record card is used and the dose number is not able to be determined, enter the next dose number the vaccination should be according to the history in the WIC System. If there is no history for the series, simply start with dose 1.
3. The 'Date Given' (corresponds to the **immunization date** in the WIC system) column is the only critical field on the record card. If you cannot determine the date a vaccination was given from the record card or the parent, DO NOT enter this vaccination. Move on to the next vaccination.
4. The 'Doctor or Clinic' corresponds to the **'Provider Code'** in the WIC System and shows what type of health facility gave that shot. If you cannot determine this choose 'OTHER' from the choices given in the WIC Immunization Entry Screen.

**Key to The Yellow 'STATE OF UTAH LIFETIME IMMUNIZATION RECORD' Card**

If type is blank or cannot be determined, enter as DTP.  
DTaP/HIB fits within this series.  
Be aware that DT is different than TD.  
D/H = DTP/HIB

<b><u>Brand Name</u></b>	<b><u>Manuf.</u></b>	<b><u>Vaccine Type</u></b>
Acel-Immune	LED	DTaP
Certiva	UNK	DTaP
Infanrix	SKB	DTaP
Tetramune	LED	DTP/HIB
TriHIBit	CON	DTaP/HIB
Tripedia	CON	DTaP

If type is blank or cannot be determined, enter as HIB

HbOC PRP-OMP PRP-T PRP-D	= HIB
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<b><u>Brand Name</u></b>	<b><u>Manuf.</u></b>	<b><u>Vaccine Type</u></b>
ActHIB	CON	HIB
Comvax	MSD	HIB/Hep B
HibTITER	LED	HIB
OmniHIB	SKB	HIB
Pedvax	MSD	HIB
ProHIBiT	CON	HIB
Tetramune	LED	DTP/HIB
TriHIBit	CON	DTaP/HIB

If type is blank or cannot be determined, enter as POLIO.

<b><u>Brand Name</u></b>	<b><u>Manuf.</u></b>	<b><u>Vaccine Type</u></b>
E-IPV	CON	IPV
IPOL	PMC	IPV
Orimune	LED	OPV
Trivalent Oral	LED	OPV
TOPV	LED	OPV

If type is blank or cannot be determined, enter as MMR  
MMR, M/R, and R/M fit within this series.

**Vaccine**

**DTP**  
Or  
**DTP/HIB**  
**DTaP**  
**DT**

**Hib**

**Polio**  
(OPV or IPV)

**Measles,  
Mumps,  
Rubella**

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If type is blank or cannot be determined, enter as HEP B

<u>Brand Name</u>	<u>Manuf.</u>	<u>Vaccine Type</u>
Comvax	MSD	HIB/Hep B
Engerix	SKB	HEP B
Recombivax	MSD	HEP B

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HBIG is the only vaccine type that can be entered into WIC from this series.

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**TD is not given to a child before the age of 7.**

If it is shown earlier than 7 on the card, it should be entered in WIC as a DT.

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INFLUENZA is the only vaccine type that can be entered into WIC from this series.

<u>Brand Name</u>	<u>Manuf.</u>	<u>Vaccine Type</u>
FluShield	LED	INFLUENZA
Fluzone	CON	INFLUENZA

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PNEUMOCOCCAL is the only vaccine type that can be entered into WIC from this series.

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VARICELLA is the only vaccine type that can be entered into WIC from this series.  
Chicken Pox = VARICELLA

<u>Brand Name</u>	<u>Manuf.</u>	<u>Vaccine Type</u>
Varivax	MSD	VARICELLA

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HEP A is the only vaccine type that can be entered into WIC from this series.

<u>Brand Name</u>	<u>Manuf.</u>	<u>Vaccine Type</u>
HavRix	SKB	HEP A
VAQTA	MSD	HEP A

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ROTAVIRUS may be found here on the record card.

<u>Brand Name</u>	<u>Manuf.</u>	<u>Vaccine Type</u>
RotaShield	LED	ROTAVIRUS

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Nothing needs to be entered from this section of the record card.

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**Hepatitis B**

**HBIG**

**Td**

**Influenza**

**Pneumococcal**

**Varicella**

**Hepatitis A**

**Other**

**Tuberculin  
Test Type**



### Questions and Answers:

**Q.** Shots that I have entered for a patient are not there anymore?

**A1.** WIC will only send immunization data to your clinic for patients who are considered 'active'. 'Terminated' and 'Pending' patients of your clinic will not be sent until their status becomes 'active'. If a patient's immunization records that you have entered disappear from your database, check to see if the patient is no longer 'active' in your clinic. If they are not, this is why shots entered after the child is not 'active' will not stay in your database. However, these shots entered by your clinic that disappear from your system will be kept in USIIS.

**A2.** If a patient coming from WIC matches closely to an existing patient in USIIS, but does not match exactly, this can send the incoming WIC patient to a holding table. The purpose of the holding table is to wait for a person to determine if the child in USIIS is the same child or not. During this holding phase, this patient's immunization and forecast information will not be sent back to WIC.

**Q.** I entered shots for a patient and all of them are gone now?

**A.** One cause for this problem occurs when the patient's first name, last name, birth date, or mother's maiden name (guardians last) are changed in the WIC system. The USIIS processes cannot tell if this is the same patient any longer since the names do not match. Sometimes USIIS will create a new record for the incoming WIC patient even though it is the same child that already exists in USIIS. When this happens USIIS will not send back to WIC any of the shots that were in the existing duplicate record until this problem is discovered and fixed by USIIS staff. This problem may need a phone call to the USIIS staff to be discovered and resolved.

### Authority for Health Data Sharing:

The Utah Health Code (Utah Code, Title 26) creates the Utah Department of Health (26-1-4) with the power and duty to provide for the detection, reporting, prevention and control of all diseases or health hazards which the Department considers important to public health (26-1-30). In 26-1-30, the Department is specifically directed to collect and report on the causes of illness, health hazards and risks, and to establish and operate programs to control disease and protect the public health. Furthermore, Title 26, Chapter 3, gives broad authority to the Department to collect and maintain health data on any illness, disability or health hazard and to disseminate statistics on a wide basis (26-3-2)(26-3-4).

The Department organization delegates to the Division the authority and duty to provide programs for Chronic Disease Control (26-5), Health Promotion and Risk Reduction (26-7), Maternal and Child Health Services (26-10), and Crippled Children's Services (26-10). Within the scope and authority of these chapters the Division establishes and operates its several health data registries.

### Help!:

For questions related to the functions and use of WIC software including those concerning the use of the immunization screens call the **WIC Help Desk** @ (800) 397-1152

For questions concerning the immunization information, such as the forecast and immunization data entry problems call the **USIIS - WIC Bridge Help Desk:**

(801) 538-6872 or  
**mobile** (801) 556-1612

**Fax** (801) 538-9440  
**E-mail** [usiishlp@doh.state.ut.us](mailto:usiishlp@doh.state.ut.us)

## Quick Reference Sheet

<i><b>Common Vaccine Brand names</b></i>		
<u><b>Brand Name</b></u>	<u><b>Manuf.</b></u>	<u><b>Vaccine Type</b></u>
Acel-Imune	LED	DTaP
ActHIB	CON	HIB
Certiva	NAV	DTaP
Comvax	MSD	HIB/Hep B
Engerix	SKB	HEP B
E-IPV	CON	IPV
FluShield	LED	INFLUENZA
Fluzone	CON	INFLUENZA
HavRix	SKB	HEP A
HibTITER	LED	HIB
Infanrix	SKB	DTaP
IPOL	PMC	IPV
OmniHIB	SKB	HIB
Orimune	LED	OPV
Pedvax	MSD	HIB
ProHIBit	CON	HIB
Recombivax	MSD	HEP B
RotaShield	LED	ROTAVIRUS
Tetramune	LED	DTP/HIB
TriHIBit	CON	DTaP/HIB
Tripedia	CON	DTaP
Trivalent Oral	LED	OPV
VAQTA	MSD	HEP A
Varivax	MSD	VARICELLA

<i><b>WIC Immunization Type Codes</b></i>	
<u><b>Vaccine Code</b></u>	<u><b>Vaccine Type</b></u>
48	DT
40	DTaP
52	DTaP / HIB (combo)
21	DTP
42	DTP / HIB (combo)
50	HBIG
51	HEP A
28	HEP B
37	HIB
54	HIB / HEP B (combo)
35	INFLUENZA
30	IPV
25	MEASLES
24	M / R measles-rubella
23	MMR
27	MUMPS
22	OPV
55	POLIO
53	PNEUMOCOCCAL
56	ROTAVIRUS
26	RUBELLA
58	R / M rubella-mumps
41	VARICELLA

### ***Vaccine Manufacturer Codes***

AB	ABBOTT
AD	ADAMS LABORATORIES
ALP	ALPHA THERAPEUTIC CORPORATION
AR	ARMOUR (inactive – use CEN)
AVI	AVIRON
BA	BAXTER HEALTHCARE CORPORATION
BAY	BAYER CORPORATION
BP	BERNA PRODUCTS (inactive – use BPC)
BPC	BERNA PRODUCTS CORPORATION
CEN	CENTEON L.L.C.
CHI	CHIRON CORPORATION
CON	CONNAUGHT (inactive – use PMC)
EVN	EVANS MEDICAL LIMITED
GRE	GREER LABORATORIES, INC.
IAG	IMMUNO INTERNATIONAL AG
IM	MERIEUX
IUS	IMMUNO-US

JPN	MICROBIAL DIS/OSAKA U
KGC	KOREA GREEN CROSS
LED	LEDERLE (inactive – use WAL)
MA	MASSACHUSETTS PUBLIC HEALTH
MED	MEDIMMUNE, INC.
MIL	MILES (inactive – use BAY)
MIP	MICHIGAN BIOLOGIC PRODUCTS INST.
MSD	MERCK
NAB	NORTH AMERICAN BIOLOGICALS, INC
NAV	NORTH AMERICAN VACCINE, INC.
NOV	NOVARTIS PHARMACEUTICAL CORP.
NYB	NEW YORK BLOOD CENTER
ORT	ORTHO DIAGNOSTIC SYSTEMS, INC.
OTC	ORGANON TEKNIKA
PD	PARKE-DAVIS
PMC	PASTEUR MERIEUX CONNAUGHT
PRX	PRAXIS BIOLOGICS (inactive – use WAL)
SCL	SCLAVO, INC.
SI	(inactive – use BPC)
SKB	SMITHKLINE BEECHAM
USA	UNITED STATES ARMY MEDICAL RESEARCH
WAL	WYETH-AYERST (includes Wyeth, Lederle and Praxis)
OTH	OTHER
UNK	UNKNOWN MANUFACTURER